INTERIM REPORT

TASK ANALYSIS OF THE UH-60 MISSION AND DECISION RULES FOR DEVELOPING A UH-60 WORKLOAD PREDICTION MODEL

VOLUME II: MISSION ANALYSIS APPENDIXES A - E

PREPARED FOR:
U.S. ARMY RESEARCH INSTITUTE AVIATION
RESEARCH AND DEVELOPMENT ACTIVITY
FORT RUCKER, ALABAMA

DECEMBER 1987

PREPARED BY:

ANACAPA SCIENCES, INC.
MILITARY PROGRAMS
P. O. BOX 489
FT. RUCKER, ALABAMA 36362
(205) 598-6326

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified	1b. RESTRICTIVE MARKINGS - -
2a. SECURITY CLASSIFICATION AUTHORITY - -	3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release; distribution is unlimited.
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE - -	
4. PERFORMING ORGANIZATION REPORT NUMBER(S) ASI690-302-87	5. MONITORING ORGANIZATION REPORT NUMBER(S) ARI Announcement A 88-36
6a. NAME OF PERFORMING ORGANIZATION Anacapa Sciences, Inc.	6b. OFFICE SYMBOL (If applicable) - -
7a. NAME OF MONITORING ORGANIZATION ARI Field Unit at Fort Rucker, Alabama	
6c. ADDRESS (City, State, and ZIP Code) P.O. Box 489 Fort Rucker, AL 36362-5000	7b. ADDRESS (City, State, and ZIP Code) Attn: PERI-IR Fort Rucker, AL 36362-5354
8a. NAME OF FUNDING / SPONSORING ORGANIZATION U.S. Army Research Institute	8b. OFFICE SYMBOL (If applicable) PERI
9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER MDA903-87-C-0523	
8c. ADDRESS (City, State, and ZIP Code) 5001 Eisenhower Avenue Alexandria, VA 22333-5600	10. SOURCE OF FUNDING NUMBERS

PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO	WORK UNIT ACCESSION NO.
6.30.07	A793	1.3.2	1.3 2.C6

11. TITLE (Include Security Classification) Task Analysis of the UH-60 Mission and Decision Rules for Developing a UH-60 Workload Prediction Model; Volume II: Mission Analysis Appendixes A-E

12. PERSONAL AUTHOR(S)
Carl R. Bierbaum, Sandra M. Szabo, and Theodore B. Aldrich

13a. TYPE OF REPORT	13b. TIME COVERED	14. DATE OF REPORT (Year, Month, Day)	15. PAGE COUNT
Interim Report	FROM 12/86 TO 12/87	1988, October	115

16. SUPPLEMENTARY NOTATION
Charles A. Gainer, contracting officer's representative and technical monitor.

17. COSATI CODES		
FIELD	GROUP	SUB-GROUP

18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
Man-Machine Interface, Task Analysis, Aviator Workload, Modelling, Mission Analysis

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This announcement presents the appendixes to a comprehensive task analysis of the UH-60 mission conducted using a composite scenario. The analysis used a top-down approach to identify the phases, functions, and tasks for the mission. Nine phases, 34 segments, 48 functions, and 138 tasks were identified. The crew member performing each task was also identified, and estimates of the sensory, cognitive, and psychomotor workload associated with the tasks were derived. Estimates of the task times were derived as well.

The data from the analysis were used to develop a computer model of workload for UH-60 crew members. This model used a bottom-up approach to build mission functions from tasks and mission segments from functions. Decision rules were written to specify the procedure to combine tasks into functions and functions into segments. The model permitted an analysis of total workload experienced by each crew member in the performance of both sequential and concurrent tasks.

20. DISTRIBUTION / AVAILABILITY OF ABSTRACT ☒ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT ☐ DTIC USERS	21. ABSTRACT SECURITY CLASSIFICATION Unclassified
22a. NAME OF RESPONSIBLE INDIVIDUAL Charles A. Gainer	22b. TELEPHONE (Include Area Code) 205/255-4404
	22c. OFFICE SYMBOL PERI-IR

DD Form 1473, JUN 86 *Previous editions are obsolete.* SECURITY CLASSIFICATION OF THIS PAGE

Human Factors Research in
Aircrew Performance and Training
MDA903-87-C-0523
ASI690-302-87

Interim Report

TASK ANALYSIS OF THE UH-60 MISSION AND DECISION RULES FOR DEVELOPING A UH-60 WORKLOAD PREDICTION MODEL

Volume II: Mission Analysis Appendixes A - E

Prepared by:

Carl R. Bierbaum
Anacapa Sciences, Inc.
Fort Rucker, Alabama

Sandra M. Szabo
Anacapa Sciences, Inc.
St. Louis, Missouri

and

Theodore B. Aldrich
Anacapa Sciences, Inc.
Fort Rucker, Alabama

Prepared for:

U.S. Army Research Institute Aviation
Research and Development Activity
Fort Rucker, Alabama

December 1987

TASK ANALYSIS OF THE UH-60 MISSION AND DECISION RULES FOR DEVELOPING A UH-60 WORKLOAD PREDICTION MODEL

Volume II: Mission Analysis Appendixes A - E

CONTENTS

APPENDIX A

SUMMARY OF UH-60 MISSION PHASES AND SEGMENTS

The UH-60 composite mission scenario was divided into 9 unique mission phases. Subsequently, the 9 mission phases were divided into segments. This appendix lists the 9 phases and the 70 mission segments that were derived during the UH-60 mission analysis.

UH-60 Mission Phases and Segments

DEPARTURE PHASE (1)
- Segment 01: Before Takeoff (Assembly Area)
- * Segment 02: Takeoff
- * Segment 03: Takeoff [NVG]

ENROUTE (AA - PZ) PHASE (2)
- * Segment 04: Contour Flight
- * Segment 05: Contour Flight [NVG]
- * Segment 06: Contour Flight (Threat)
- * Segment 07: Contour Flight (Threat) [NVG]
- * Segment 08: Contour Flight (Mission Change)
- * Segment 09: Contour Flight (Mission Change) [NVG]
- * Segment 10: Approach
- * Segment 11: Approach [NVG]
- * Segment 12: Landing
- * Segment 13: Landing [NVG]

DEPARTURE (PZ) PHASE (3)
- Segment 14: Before Takeoff (Internal Load)
- Segment 15: Before Takeoff (External Load)
- Segment 16: Before Takeoff (External Load) [NVG]
- * Segment 02: Takeoff
- * Segment 03: Takeoff [NVG]
- Segment 17: Takeoff (External)
- Segment 18: Takeoff (External) [NVG]

ENROUTE (PZ - LZ) PHASE (4)
- * Segment 19: NOE Flight
- * Segment 20: NOE Flight [NVG]
- * Segment 21: NOE Flight (Threat)
- * Segment 22: NOE Flight (Threat) [NVG]
- * Segment 23: NOE Flight (Mission Change)
- * Segment 24: NOE Flight (Mission Change) [NVG]
- Segment 25: Approach (LZ)
- Segment 26: Approach (LZ) [NVG]
- Segment 27: Landing (LZ, Internal Load)
- Segment 28: Landing (LZ, Internal Load) [NVG]
- Segment 29: Landing (LZ, External Load)
- Segment 30: Landing (LZ, External Load) [NVG]

*Denotes segment that occurs in more than one mission phase.

UH-60 Mission Phases and Segments [Continued]

DEPARTURE (LZ) PHASE (5)
- Segment 31: Before Takeoff (LZ)
- * Segment 02: Takeoff
- * Segment 03: Takeoff [NVG]

ENROUTE (LZ - PZ) OR (LZ - FARP) PHASE (6)
- * Segment 19: NOE Flight
- * Segment 20: NOE Flight [NVG]
- * Segment 21: NOE Flight (Threat)
- * Segment 22: NOE Flight (Threat) [NVG]
- * Segment 23: NOE Flight (Mission Change)
- * Segment 24: NOE Flight (Mission Change) [NVG]
- * Segment 10: Approach
- * Segment 11: Approach [NVG]
- * Segment 12: Landing
- * Segment 13: Landing [NVG]

FARP OPERATIONS PHASE (7)
- Segment 32: FARP Procedures
- Segment 33: FARP Procedures [NVG]
- Segment 34: Before Takeoff (FARP)
- * Segment 02: Takeoff
- * Segment 03: Takeoff [NVG]

ENROUTE (FARP - PZ) PHASE (8)
- * Segment 19: NOE Flight
- * Segment 20: NOE Flight [NVG]
- * Segment 21: NOE Flight (Threat)
- * Segment 22: NOE Flight (Threat) [NVG]
- * Segment 23: NOE Flight (Mission Change)
- * Segment 24: NOE Flight (Mission Change) [NVG]
- * Segment 10: Approach
- * Segment 11: Approach [NVG]
- * Segment 12: Landing
- * Segment 13: Landing [NVG]

*Denotes segment that occurs in more than one mission phase.

UH-60 Mission Phases and Segments [Continued]

ENROUTE (PZ - AA) PHASE (9)

- * Segment 04: Contour Flight
- * Segment 05: Contour Flight [NVG]
- * Segment 06: Contour Flight (Threat)
- * Segment 07: Contour Flight (Threat) [NVG]
- * Segment 08: Contour Flight (Mission Change)
- * Segment 09: Contour Flight (Mission Change) [NVG]
- * Segment 10: Approach
- * Segment 11: Approach [NVG]
- * Segment 12: Landing
- * Segment 13: Landing [NVG]

*Denotes segment that occurs in more than one mission phase.

APPENDIX B

ALPHABETICAL LIST OF UH-60 UNIQUE FUNCTIONS

Each mission segment listed in Appendix A was divided into functions during the UH-60 mission analysis. Forty-eight unique functions were identified. Subsequently, the 48 unique functions were ordered in an alphabetical list and a number (1 - 48) was assigned corresponding to the ordinal position within the list. This appendix is an alphabetical list of the functions and the numerical identifiers for the functions.

NUMBER	FUNCTION
01	Adjust Flight Parameters
02	Adjust Flight Parameters [NVG]
03	Check Aircraft Systems
04	Compute Fuel Burn Rate
05	Establish Approach
06	Establish Approach [NVG]
07	Establish Climb
08	Establish Climb [NVG]
09	Establish Level of Flight
10	Establish Level of Flight [NVG]
11	Land Aircraft
12	Land Aircraft [NVG]
13	Load Aircraft (Internal)
14	Load Cargo (External)
15	Load Cargo (External) [NVG]
16	Mission Change
17	Monitor Audio
18	Monitor Threat
19	Perform After Landing Check
20	Perform Before Landing Check
21	Perform Before Landing Check (LZ)
22	Perform Before Takeoff Check
23	Perform Before Takeoff Check (Fly Through)
24	Perform Before Taxi Check (FARP)
25	Perform Cockpit Communication (Copilot)
26	Perform Cockpit Communication (Pilot)
27	Perform External Communication
28	Perform External Communication (Threat)
29	Perform Hover
30	Perform Hover [NVG]
31	Perform Navigation
32	Perform Navigation [NVG]
33	Perform Taxi
34	Perform Taxi [NVG]
35	Program Doppler
36	Program Transponder
37	Refuel Aircraft
38	Respond to Threat
39	Respond to Threat [NVG]

NUMBER	FUNCTION
40	Unload Aircraft (Internal)
41	Unload Cargo (External)
42	Unload Cargo (External) [NVG]
43	Update Doppler (Landmark)
44	Update Doppler (Landmark) [NVG]
45	Update Doppler (Mission Change)
46	Update Doppler (PZ)
47	Update Doppler (Stored Destination)
48	Update Doppler (Stored Destination) [NVG]

APPENDIX C

OUTLINE OF UH-60 MISSION SEGMENTS AND FUNCTIONS

A composite mission scenario was developed as the first step in the UH-60 mission/task/workload analysis. Subsequently, the UH-60 composite mission scenario was divided into 9 unique mission phases. The 9 mission phases subsequently were divided into segments and functions. This appendix is an outline of all the segments and functions as they occur in each of the 9 mission phases throughout the entire mission scenario.

DEPARTURE (ASSEMBLY AREA)

Before Takeoff (Assembly Area)

Program Doppler
Program Transponder
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Monitor Audio
Perform Before Takeoff Check
Perform External Communication

Takeoff

Perform Hover
Establish Climb
Establish Level of Flight
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Check Aircraft Systems
Monitor Threat

Takeoff [NVG]

Perform Hover [NVG]
Establish Climb [NVG]
Establish Level of Flight [NVG]
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Check Aircraft Systems
Monitor Threat

ENROUTE (AA-PZ)

Contour Flight

Adjust Flight Parameters
Perform Navigation
Monitor Threat
Check Aircraft Systems
Update Doppler (Landmark)
Compute Fuel Burn Rate
Update Doppler (Stored Destination)
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)

ENROUTE (AA-PZ) [Continued]

Contour Flight [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Update Doppler (Landmark) [NVG]
- Update Doppler (Stored Destination) [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight (Threat)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Update Doppler (Stored Destination)
- Compute Fuel Burn Rate
- Respond to Threat
- Perform External Communication (Threat)
- Update Doppler (Landmark)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight (Threat) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Update Doppler (Stored Destination) [NVG]
- Compute Fuel Burn Rate
- Respond to Threat [NVG]
- Perform External Communication (Threat)
- Update Doppler (Landmark) [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (AA-PZ) [Continued]

Contour Flight (Mission Change)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Update Doppler (Landmark)
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight (Mission Change) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Update Doppler (Landmark) [NVG]
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Approach
- Perform External Communication
- Perform Before Landing Check
- Establish Approach
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

ENROUTE (AA-PZ) [Continued]

Approach [NVG]
- Perform External Communication
- Perform Before Landing Check
- Establish Approach [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

Landing
- Perform Hover
- Land Aircraft
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Landing [NVG]
- Perform Hover [NVG]
- Land Aircraft [NVG]
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

DEPARTURE (PZ)

Before Takeoff (Internal Load)
- Update Doppler (PZ)
- Load Aircraft (Internal)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Audio
- Perform Before Takeoff Check (Fly Through)
- Perform External Communication

DEPARTURE (PZ) [Continued]

Before Takeoff (External Load)
- Update Doppler (PZ)
- Load Aircraft (Internal)
- Load Cargo (External)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Audio
- Perform Before Takeoff Check (Fly Through)
- Perform External Communication

Before Takeoff (External Load) [NVG]
- Update Doppler (PZ)
- Load Aircraft (Internal)
- Load Cargo (External) [NVG]
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Audio
- Perform Before Takeoff Check (Fly Through)
- Perform External Communication

Takeoff
- Perform Hover
- Establish Climb
- Establish Level of Flight
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

Takeoff [NVG]
- Perform Hover [NVG]
- Establish Climb [NVG]
- Establish Level of Flight [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

DEPARTURE (PZ) [Continued]

Takeoff (External)
- Establish Climb
- Establish Level of Flight
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

Takeoff (External) [NVG]
- Establish Climb [NVG]
- Establish Level of Flight [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

ENROUTE (PZ-LZ)

NOE Flight
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-LZ) [Continued]

NOE Flight (Threat)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Threat) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat [NVG]
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Mission Change)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-LZ) [Continued]

NOE Flight (Mission Change) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Approach (LZ)
- Perform Before Landing Check (LZ)
- Establish Approach
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

Approach (LZ) [NVG]
- Perform Before Landing Check (LZ)
- Establish Approach [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

Landing (LZ Internal Load)
- Perform Hover
- Land Aircraft
- Monitor Audio
- Unload Aircraft (Internal)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-LZ) [Continued]

Landing (LZ Internal Load) [NVG]
- Perform Hover [NVG]
- Land Aircraft [NVG]
- Monitor Audio
- Unload Aircraft (Internal)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Landing (LZ External Load)
- Perform Hover
- Monitor Audio
- Unload Cargo (External)
- Land Aircraft
- Unload Aircraft (Internal)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Landing (LZ External Load) [NVG]
- Perform Hover [NVG]
- Monitor Audio
- Unload Cargo (External) [NVG]
- Land Aircraft [NVG]
- Unload Aircraft (Internal)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

DEPARTURE (LZ)

Before Takeoff (LZ)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Audio
- Perform Before Takeoff Check (Fly Through)
- Update Doppler (PZ)

DEPARTURE (LZ) [Continued]

Takeoff
- Perform Hover
- Establish Climb
- Establish Level of Flight
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

Takeoff [NVG]
- Perform Hover [NVG]
- Establish Climb [NVG]
- Establish Level of Flight [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

ENROUTE (LZ-PZ) OR (LZ-FARP)

NOE Flight
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (LZ-PZ) OR (LZ-FARP) [Continued]

NOE Flight (Threat)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Threat) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat [NVG]
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Mission Change)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (LZ-PZ) OR (LZ-FARP) [Continued]

NOE Flight (Mission Change) [NVG]

Adjust Flight Parameters [NVG]
Perform Navigation [NVG]
Monitor Threat
Check Aircraft Systems
Compute Fuel Burn Rate
Mission Change
Update Doppler (Mission Change)
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)

Approach

Perform External Communication
Perform Before Landing Check
Establish Approach
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Monitor Threat
Check Aircraft Systems

Approach [NVG]

Perform External Communication
Perform Before Landing Check
Establish Approach [NVG]
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Monitor Threat
Check Aircraft Systems

Landing

Perform Hover
Land Aircraft
Perform After Landing Check
Perform External Communication
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)

ENROUTE (LZ-PZ) OR (LZ-FARP) [Continued]

Landing [NVG]
- Perform Hover [NVG]
- Land Aircraft [NVG]
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

FORWARD AREA ARMING AND REFUELING POINT (FARP) OPERATION

FARP Procedures
- Perform Taxi
- Refuel Aircraft
- Perform Before Taxi Check (FARP)
- Perform Taxi
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

FARP Procedures [NVG]
- Perform Taxi [NVG]
- Refuel Aircraft
- Perform Before Taxi Check (FARP)
- Perform Taxi [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Before Takeoff (FARP)
- Perform Before Takeoff Check (Fly Through)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Audio
- Perform External Communication
- Update Doppler (PZ)

FORWARD AREA ARMING AND REFUELING POINT (FARP) OPERATION [Continued]

Takeoff
- Perform Hover
- Establish Climb
- Establish Level of Flight
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

Takeoff [NVG]
- Perform Hover [NVG]
- Establish Climb [NVG]
- Establish Level of Flight [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Check Aircraft Systems
- Monitor Threat

ENROUTE (FARP-PZ)

NOE Flight
- Aojust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Bum Rate
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (FARP-PZ) [Continued]

NOE Flight (Threat)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Threat) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Respond to Threat [NVG]
- Monitor Audio
- Perform External Communication (Threat)
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

NOE Flight (Mission Change)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (FARP-PZ) [Continued]

NOE Flight (Mission Change) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Approach
- Perform External Communication
- Perform Before Landing Check
- Establish Approach
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

Approach [NVG]
- Perform External Communication
- Perform Before Landing Check
- Establish Approach [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)
- Monitor Threat
- Check Aircraft Systems

Landing
- Perform Hover
- Land Aircraft
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (FARP-PZ) [Continued]

Landing [NVG]
- Perform Hover [NVG]
- Land Aircraft [NVG]
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-AA)

Contour Flight
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Update Doppler (Landmark)
- Compute Fuel Burn Rate
- Update Doppler (Stored Destination)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Update Doppler (Landmark) [NVG]
- Update Doppler (Stored Destination) [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-AA) [Continued]

Contour Flight (Threat)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Update Doppler (Stored Destination)
- Compute Fuel Burn Rate
- Respond to Threat
- Perform External Communication (Threat)
- Update Doppler (Landmark)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight (Threat) [NVG]
- Adjust Flight Parameters [NVG]
- Perform Navigation [NVG]
- Monitor Threat
- Check Aircraft Systems
- Update Doppler (Stored Destination) [NVG]
- Compute Fuel Burn Rate
- Respond to Threat [NVG]
- Perform External Communication (Threat)
- Update Doppler (Landmark) [NVG]
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

Contour Flight (Mission Change)
- Adjust Flight Parameters
- Perform Navigation
- Monitor Threat
- Check Aircraft Systems
- Compute Fuel Burn Rate
- Update Doppler (Landmark)
- Mission Change
- Update Doppler (Mission Change)
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

ENROUTE (PZ-AA) [Continued]

Contour Flight (Mission Change) [NVG]

Adjust Flight Parameters [NVG]
Perform Navigation [NVG]
Monitor Threat
Check Aircraft Systems
Compute Fuel Burn Rate
Update Doppler (Landmark) [NVG]
Mission Change
Update Doppler (Mission Change)
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)

Approach

Perform External Communication
Perform Before Landing Check
Establish Approach
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Monitor Threat
Check Aircraft Systems

Approach [NVG]

Perform External Communication
Perform Before Landing Check
Establish Approach [NVG]
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)
Monitor Threat
Check Aircraft Systems

Landing

Perform Hover
Land Aircraft
Perform After Landing Check
Perform External Communication
Monitor Audio
Perform Cockpit Communication (Copilot)
Perform Cockpit Communication (Pilot)

ENROUTE (PZ-AA) [Continued]

Landing [NVG]

- Perform Hover [NVG]
- Land Aircraft [NVG]
- Perform After Landing Check
- Perform External Communication
- Monitor Audio
- Perform Cockpit Communication (Copilot)
- Perform Cockpit Communication (Pilot)

APPENDIX D

ALPHABETICAL LIST OF UH-60 UNIQUE TASKS

During the UH-60 mission/task/workload analysis, each of the 48 functions were divided into tasks. A task defines a specific crew activity that is essential to the successful performance of the selected function. A total of 138 unique tasks were identified for the 48 functions. This appendix is an alphabetical list of tasks with assigned task numbers.

TASK NUMBER	VERB	OBJECT
001	Receive	Acknowledgment
002	Transmit	Acknowledgment
003	Maneuver	Aircraft Across Landmark
004	Maneuver	Aircraft Across Landmark [NVG]
005	Verify	Aircraft Location
006	Verify	Aircraft Location [NVG]
007	Control	Airspeed
008	Check	Airspeed Indicator (Inflight)
009	Control	Airspeed [NVG]
010	Change	Airspeed Quickly
011	Change	Airspeed Quickly [NVG]
012	Check	Altimeter (Inflight)
013	Adjust	Altitude
014	Control	Altitude
015	Adjust	Altitude [NVG]
016	Control	Altitude [NVG]
017	Change	Altitude Sharply
018	Change	Altitude Sharply [NVG]
019	Set	ANT Switch
020	Control	Attitude
021	Control	Attitude [NVG]
022	Monitor	Audio
023	Press	Cargo Release Button
024	Set	Cargo Release Switch
025	Set	Chaff Dispenser ARM Switch
026	Press	CHAFF Dispenser Switch
027	Receive	Communication (Copilot)
028	Transmit	Communication (Copilot)
029	Receive	Communication (Pilot)
030	Transmit	Communication (Pilot)
031	Compute	Consumption Rate
032	Check	Coordinates
033	Copy	Coordinates
034	Follow	Course
035	Follow	Course [NVG]
036	Check	Crew
037	Set	DEST DISP Thumbwheel
038	Check	Direction Display

TASK NUMBER	VERB	OBJECT
039	Check	Doors
040	Press	Doppler Data Entry Key
041	Check	Doppler Display
042	Monitor	Doppler Display
043	Set	Doppler Display Selector Switch
044	Press	Doppler KYBD Key
045	Enter	Doppler Magnetic Variation
046	Set	Doppler Mode Switch
047	Check	Doppler Panel Lights
048	Enter	Doppler Spheroid Data
049	Enter	Doppler Zone Data
050	Control	Drift
051	Control	Drift [NVG]
052	Set	EMER REL Switch
053	Check	Engine Fuel System Selective Lever
054	Check	Engine Instruments
055	Monitor	Engine Instruments
056	Check	Flight Instruments
057	Set	FLY-TO-DEST Switch
058	Control	Forward Motion
059	Control	Forward Motion [NVG]
060	Check	Fuel Quantity Indicator
061	Monitor	Fuel Quantity Indicator
062	Evaluate	Hand Signals
063	Evaluate	Hand Signals [NVG]
064	Perform	Hard Turns
065	Perform	Hard Turns [NVG]
066	Adjust	Heading
067	Control	Heading
068	Check	Heading Indicator (Inflight)
069	Adjust	Heading [NVG]
070	Control	Heading [NVG]
071	Check	Infrared Countermeasure Light
072	Set	Infrared Countermeasure Switch
073	Verify	Load Hookup
074	Verify	Load Hookup [NVG]
075	Verify	Load on Ground
076	Verify	Load on Ground [NVG]

TASK NUMBER	VERB	OBJECT
077	Verify	Load Released
078	Verify	Load Released [NVG]
079	Check	Load Secure
080	Verify	Load Secure
081	Monitor	Loading
082	Read	Maps
083	Check	MASTER CAUTION/WARNING Panel
084	Set	Master Switch
085	Set	M-C Switch
086	Set	M-C Test Switch
087	Receive	Message
088	Transmit	Message
089	Transmit	Message (Brief)
090	Note	Message Alert
091	Set	Mode 1 Code
092	Set	Mode 3A Code
093	Set	Mode 4 Switch
094	Set	M-1 Switch
095	Set	M-1 Test Switch
096	Set	M-2 Switch
097	Set	M-2 Test Switch
098	Set	M-3 Switch
099	Set	M-3 Test Switch
100	Check	Obstacle Clearance
101	Maintain	Obstacle Clearance
102	Check	Obstacle Clearance [NVG]
103	Maintain	Obstacle Clearance [NVG]
104	Check	Park Brake
105	Release	Park Brake
106	Set	Park Brake
107	Set	Park Brake Lever
108	Adjust	Power
109	Adjust	Power [NVG]
110	Perform	Power Check
111	Check	Power Lever
112	Set	Radar Jamming Control Switch
113	Check	Radio
114	Control	Rate of Climb

TASK NUMBER	VERB	OBJECT
115	Control	Rate of Climb [NVG]
116	Control	Rate of Descent
117	Control	Rate of Descent [NVG]
118	Check	Refueling Complete
119	Check	Reply Light
120	Check	Route
121	Check	Tailwheel Advisory Light
122	Set	TAILWHEEL Switch
123	Set	Target Storage Switch
124	Check	Test Light
125	Check	Test/MON Light
126	Detect	Threat
127	Note	Time
128	Perform	Touchdown
129	Perform	Touchdown [NVG]
130	Set	Transmitter Selector Switch
131	Adjust	Trim
132	Check	Trim Ball (Inflight)
133	Adjust	Trim [NVG]
134	Monitor	Unloading
135	Verify	Unloading Complete
136	Enter	UTM Coordinates
137	Check	Vertical Situation Indicator (Inflight)
138	Check	% TRQ Indicator (Inflight)

APPENDIX E

UH-60 FUNCTION ANALYSIS WORKSHEETS

During the UH-60 mission/task/workload analysis, descriptive information was compiled for each of the 138 unique tasks. The descriptive information for each task was compiled on Function Analysis Worksheets using a standardized format. This appendix contains the Function Analysis Worksheets for each of the 48 unique functions. The Function Analysis Worksheets provide the following information:

- function name,
- function number,
- total time of function,
- task identifiers with verb and object,
- task numbers,
- subsystems associated with each task,
- verbal descriptions of sensory components and workload ratings,
- verbal descriptions of cognitive components and workload ratings,
- verbal descriptions of psychomotor components and workload ratings,
- descriptions of switches if used to perform the tasks, and
- times required to perform the tasks.

FUNCTION 01 Adjust Flight Parameters

TOTAL TIME (Approximate) Continuous*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Altimeter (Inflight)	P012	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Attitude	P013	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Airspeed	P007	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	

*The total time for the function will vary depending on the length of the segment.

FUNCTION 01 Adjust Flight Parameters [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Adjust	Heading	P066	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Trim Ball (Inflight)	P132	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-70/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Trim	P131	Flight Control (FC)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Maintain	Obstacle Clearance	P101	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

FUNCTION 02 **Adjust Flight Parameters [NVG]** **TOTAL TIME (Approximate)** Continuous*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Altimeter (Inflight)	P012	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Altitude [NVG]	P015	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Airspeed [NVG]	P009	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (inflight)	P038	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	

*The total time for the function will vary depending on the length of the segment.

FUNCTION 02 Adjust Flight Parameters [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Adjust	Heading [NVG]	P069	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Trim Ball (Inflight)	P132	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Trim [NVG]	P133	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Maintain	Obstacle Clearance [NVG]	P103	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

FUNCTION 03 Check Aircraft Systems

TOTAL TIME (Approximate) 10.5 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Engine Instruments	B054	Engine Instruments (EIN)	Visually Inspect Instrument Indications V-4	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			5	
Check	MASTER CAUTION/ WARNING Panel	B083	Advisory (UAD)	Visually Inspect and Register Lights V-4	Verify Correct Status (No Lights Illuminated) C 1.2			1	
Check	Fuel Quantity Indicator	B060	Fuel (EF)	Visually Inspect Instrument Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-4.6			3	

FUNCTION 04 Compute Fuel Burn Rate **TOTAL TIME (Approximate) 41.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Fuel Quantity Indicator	C060	Fuel (EF)	Visually Inspect Instrument Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enouth Fuel) C-4.6			3	
Note	Time	C127	Fuel (EF)	Visually Check Instrument Indication V-4	Interpret Readout C-3.7	Write Information P-6.5		7	
Compute	Consumption Rate	C031	Fuel (EF)	Read Symbols V-5.9	Evaluate Fuel Consumption Rate C-6.8			30	

FUNCTION 05 Establish Approach **TOTAL TIME (Approximate) 243.5 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Vertical Situation Indicator (Inflight)	P137	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Rate of Descent	P116	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Airspeed Indicator (Inflight)	P006	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Airspeed	P007	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 05 Establish Approach [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-1	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Drift	P050	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

FUNCTION 06 Establish Approach [NVG] **TOTAL TIME (Approximate) 344 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		2	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Vertical Situation Indicator (Inflight)	P137	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Rate of Descent [NVG]	P117	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Airspeed [NVG]	P009	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 06 Establish Approach [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Drift [NVG]	P051	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

FUNCTION 07 Establish Climb **TOTAL TIME (Approximate) 33.5 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Vertical Situation Indicator (Inflight)	P137	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Rate of Climb	P114	Flight Control (FC)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Airspeed	P007	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 07 Establish Climb (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Heading Indicator (Inflight)	P058	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

FUNCTION 08 Establish Climb [NVG] **TOTAL TIME (Approximate)** 94 Seconds*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		2	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Vertical Situation Indicator (Inflight)	P137	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Rate of Climb [NVG]	P115	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Airspeed [NVG]	P009	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 08 Establish Climb [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

FUNCTION 09 Establish Level of Flight **TOTAL TIME (Approximate) 134.5 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Altimeter (Inflight)	P012	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Altitude	P014	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Fuel Quantity Indicator	C060	Fuel (EF)	Visually Inspect Instrument Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-4.6			3	
Note	Time	C127	Fuel (EF)	Visually Check Instrument Indication V-4	Interpret Readout C-3.7	Write Information P-6.5		7	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 09 Establish Level of Flight [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Airspeed	P007	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

UH-60 FUNCTION ANALYSIS

FUNCTION 10 Establish Level of Flight [NVG]

TOTAL TIME (Approximate) 195 Seconds*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		2	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Altimeter (Inflight)	P012	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Altitude [NVG]	P016	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Fuel Quantity Indicator	C060	Fuel (EF)	Visually Inspect Instrument Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-4.6			3	
Note	Time	C127	Fuel (EF)	Visually Check Instrument Indication V-4	Interpret Readout C-3.7	Write Information P-6.5		7	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 10 Establish Level of Flight [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Airspeed Indicator (Inflight)	P008	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Airspeed [NVG]	P009	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

UH-60 FUNCTION ANALYSIS

FUNCTION 11 Land Aircraft **TOTAL TIME (Approximate) 13.5 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Maintain	Obstacle Clearance	P101	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		.5	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		.5	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		.5	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		.5	
Control	Drift	P050	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		.5	
Perform	Touchdown	P128	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-4		3	
Check	Obstacle Clearance	C100	External Visual Field (VEX)	Visually Register Obstacles V-1	Make Conditioned Association (Aircraft Clear) C-1			1	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 12 Land Aircraft [NVG] **TOTAL TIME (Approximate) 44 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Maintain	Obstacle Clearance [NVG]	P103	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement and Monitor Instrument Indications K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Drift [NVG]	P051	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Perform	Touchdown [NVG]	P129	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		5	
Check	Obstacle Clearance [NVG]	C102	Flight Control/Night Vision Goggles (FC/VG)	Visually Register Obstacles G-1	Make Conditioned Association (Aircraft Clear) C-1			3	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

UH-60 FUNCTION ANALYSIS

FUNCTION 13 Load Aircraft (Internal) TOTAL TIME (Approximate) 96.5 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Monitor	Loading	C081	Cargo (UCA)	Visually Scan Cargo Compartment V-7	Verify Correct Procedure C-1.2	Move Head P-2.6		60	
Verify	Load Secure	C080	Cargo (UCA)	Visually Inspect Cargo Compartment V-4	Verify Correct Status C-1.2	Move Head P-2.6		30	
Check	Doors	C039	Cargo (UCA)	Visually Inspect Doors V-4	Verify Correct Status C-1.2	Move Head P-2.6		5	

FUNCTION 14 Load Cargo (External) **TOTAL TIME (Approximate)** 243.5 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Cargo Release Switch	C024	Cargo (UCA)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ARM) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	EMER REL Switch	C052	Cargo (UCA)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (NORM) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Altitude	P014	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	

FUNCTION 14 Load Cargo (External) [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Drift	P050	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Evaluate	Hand Signals	P062	External Visual Field (VEX)	Visually Discriminate Hand Motion V-3.7	Evaluate Sensory Feedback C-3.7				(c)
Verify	Load Hookup	P073	External Visual Field (VEX)	Visually Discriminate Hand Motion/Visually Register Light V-3.7	Evaluate Sensory Feedback and Verify Correct Status (Hook Light Extinguished) C-3.7			1	

FUNCTION 15 Load Cargo (External) [NVG] **TOTAL TIME (Approximate)** 344 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Cargo Release Switch	C024	Cargo (UCA)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ARM) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	EMER REL Switch	C052	Cargo (UCA)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (NORM) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		2	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits C-3.7	Control Pressure P-2.6		1	
Control	Altitude [NVG]	P016	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	

FUNCTION 15 Load Cargo (External) [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Drift [NVG]	P051	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Evaluate	Hand Signals [NVG]	P063	Night Vision Goggles (VG)	Visually Discriminate Hand Motion G-5	Evaluate Sensory Feedback C-3.7				(c)
Verify	Load Hookup [NVG]	P074	Night Vision Goggles (VG)	Visually Discriminate Hand Motion/Visually Register Light G-5	Evaluate Sensory Feedback and Verify Correct Status (Hook Light Extinguished) C-3.7	Control Pressure P-2.6		2	

FUNCTION 16 **Mission Change** **TOTAL TIME (Approximate)** **74.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Note	Message Alert	C090	Communication (UC)	Attend to Sound A-4.2	Decode Message C-5.3			2	
Set	Transmitter Selector Switch	C130	Communication (UC)	Visually Check Switch Position and Monitor Placement of Switch V-4	Evaluate Position Options and Decide Desired Position C-4.6	Turn Switch P-2	Rotary - 7 Positions (R-7)	1	
Transmit	Acknowledgment	C002	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Copy	Coordinates	C033	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3	Write Information P-6.5		12	
Transmit	Acknowledgment	C002	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Check	Coordinates	C032	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols and Make Judgment (Location Correct) C-6.8	Handle Maps P-4.6		10	
Check	Route	C120	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols and Make Judgment (Best Route) C-6.8	Handle Maps P-4.6		40	

UH-60 FUNCTION ANALYSIS

FUNCTION 17 Monitor Audio **TOTAL TIME (Approximate)** **Continuous***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Monitor	Audio	B022	Communication/ Survivability (UC/US)	Register Sound A-1	Recognize Auditory Signal C-1				(c)

*The total time for this function varies with the segment in which the function occurs.

FUNCTION 18 Monitor Threat **TOTAL TIME (Approximate) 3.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Direction Display	B038	Survivability (US)	Detect Visual Image V-1	Recognize Visual Signal (Threat Present) C-3.7			3	

FUNCTION 19 Perform After Landing Check **TOTAL TIME (Approximate) 10.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	TAILWHEEL Switch	C122	Gear (FG)	Visually Locate Switch V-5	Decide Correct Position (Unlock) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	1	
Check	Tailwheel Advisory Light	C121	Advisory (UAD)	Visually Register Light V-1	Verify Correct Status C-1.2			1	
Check	Radios	C113	Communication (UC)	Visually Scan Dial Indications V-7	Interpret Symbolic Readouts and Verify Correct C-5.3			7	

FUNCTION 20 **Perform Before Landing Check** **TOTAL TIME (Approximate)** **20.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Tailwheel Advisory Light	C121	Advisory (UAD)	Visually Register Light V-1	Verify Correct Status (Locked) C-2			1	
Check	Radios	C113	Communication (UC)	Visually Scan Dial Indications V-7	Interpret Symbolic Readouts and Verify Correct C-5.3			7	
Check	Park Brake	C104	Brakes (FB)	Visually Inspect Handle Position V-4	Verify Current Position Correct (Unlocked) C-2			1	
Check	Crew	C036	Survivability (US)	Visually Inspect Crew Positions V-4	Verify Secure C-1.2	Move Head P-2.6		5	
Set	Radar Jamming Control Switch	C112	Survivability (US)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Off) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	Infrared Countermeasure Switch	C072	Survivability (US)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Off) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Chaff Dispenser ARM Switch	C025	Survivability (US)	Visually Check Switch Positions, Placement of Switch, and Light V-4	Decide Correct Position (SAFE) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Safety Toggle - 2 Positions (ST-2)	1	

FUNCTION 21 **Perform Before Landing Check (LZ)** **TOTAL TIME (Approximate)** 25.5 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Tailwheel Advisory Light	C121	Advisory (UAD)	Visually Register Light V-1	Verify Correct Status (Locked) C-2			1	
Check	Radios	C113	Communication (UC)	Visually Scan Dial Indications V-7	Interpret Symbolic Readouts and Verify Correct C-5.3			7	
Check	Park Brake	C104	Brakes (FB)	Visually Inspect Handle Position V 4	Verify Current Position Correct (Unlocked) C-2			1	
Check	Load Secure	C079	Cargo (UCA)	Visually Inspect Cargo Compartment V-4	Verify Correct Status C-1.2	Move Head P-2.6		10	
Set	Radar Jamming Control Switch	C112	Survivability (US)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Off) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	Infrared Countermeasure Switch	C072	Survivability (US)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Off) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Chaff Dispenser ARM Switch	C025	Survivability (US)	Visually Check Switch Positions, Placement of Switch, and Light V-4	Decide Correct Position (SAFE) and Verify Correct Status (Light Extinguished) C-1.2	Move Switch P-2.2	Safety Toggle - 2 Positions (ST-2)	1	

FUNCTION 22 **Perform Before Takeoff Check** **TOTAL TIME (Approximate)** 47 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Power Levers	P111	Fuel (EF)	Visually Inspect Lever Position V-4	Verify Correct Status C-1.2		Lever - 4 Positions (L-4)	1	
Check	Fuel Quantity Indicator	P060	Fuel (EF)	Visually Inspect Instrument Indication V-4	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8			3	
Monitor	Engine Instruments	P055	Engine Instruments (EIN)	Visually Scan Instrument Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			5	
Check	Flight Instruments	P056	Flight Instruments (FI)	Visually Scan Instrument Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status C-3.7			5	
Check	Master CAUTION/WARNING Panel	P083	Advisory (UAD)	Visually Scan and Register Lights V-1	Verify Correct Status (All Lights Extinguished) C-1.2			1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
...form	Power Check	P110	Flight Control/ Engine Instruments (FC/EIN)	Visually Monitor Instrument Indication and Read Charts K-7/V-7	Interpret Sensory and Symbolic Readouts and Make Comparison (Torque Indication Same as Performance Charts) C-6.8	Control Pressure P-2.6		20	
Check	Radios	P113	Communication (UC)	Visually Scan Dial Indications V-7	Interpret Symbolic Readouts and Verify Correct C-5.3			7	

FUNCTION 22 **Perform Before Takeoff Check [Continued]**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Radar Jamming Control Switch	C112	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Infrared Countermeasure Switch	C072	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Chaff Dispenser ARM Switch	C025	Survivability (US)	Visually Check Switch Position, Placement of Switch, and Light V-4	Decide Correct Position (ARM) and Verify Correct Status (Light Illuminated) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Check	Crew	C036	Survivability (US)	Visually Inspect Crew Positions V-4	Verify Secure C-1.2	Move Head P-2.6		5	

FUNCTION 23 Perform Before Takeoff Check (Fly Through) **TOTAL TIME (Approximate) 17.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Check	Power Levers	C111	Fuel (EF)	Visually Inspect Lever Position V-4	Verify Correct Status C-1.2		Lever - 4 Positions (L-4)	1	
Monitor	Engine Instruments	C055	Engine Instruments (EIN)	Visually Scan Instrument Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			5	
Check	Flight Instruments	C056	Flight Instruments (FI)	Visually Scan Instrument Indications V-7	Interpret Sensory and Symbolic Readouts and Verify Correct Status (Readouts Within Limits) C-3.7			5	
Check	Master CAUTION/WARNING Panel	C083	Advisory (UAD)	Visually Scan and Register Lights V-1	Verify Correct Status (All Lights Extinguished) C-1.2			1	
Set	Radar Jamming Control Switch	C112	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Evaluate Position Options and Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Infrared Countermeasure Switch	C072	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Evaluate Position Options and Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Set	Chaff Dispenser ARM Switch	C025	Survivability (US)	Visually Check Switch Positions, Placement of Switch, and Light V-4	Decide Correct Position (ARM), and Verify Correct Status (Light Illuminated) C-1.2	Move Switch P-2.2	Toggle - 2 Positions (T-2)	1	
Check	Crew	C036	Survivability (US)	Visually Inspect Crew Positions V-4	Verify Secure C-1.2	Move Head P-2.6		5	
Check	Radios	C113	Communication (UC)	Visually Scan Dial Indications V-7	Interpret Symbolic Readouts and Verify Correct C-5.3			7	

FUNCTION 24 **Perform Before Taxi Check (FARP)** **TOTAL TIME (Approximate)** **4 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Release	Park Brake	P105	Brakes (FB)	Feel Brake Position K-1	Decide and Verify Correct Position (Unlocked) C-1.2	Push Toe Brakes P-2.2		1	
Set	TAILWHEEL Switch	C122	Gear (FG)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Unlock) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	1	
Check	Tailwheel Advisory Light	C121	Advisory (UAD)	Visually Register Light V-1	Verify Correct Status (Illuminated) C-1.2			.5	

FUNCTION 25 Perform Cockpit Communication (Copilot) **TOTAL TIME (Approximate) 7 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Transmit	Communication (Copilot)	C028	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Receive	Communication (Pilot)	P029	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			3	
Transmit	Communication (Pilot)	P030	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Receive	Communication (Copilot)	C027	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			3	

FUNCTION 26 **Perform Cockpit Communication (Pilot)** **TOTAL TIME (Approximate)** **7 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Transmit	Communication (Pilot)	P030	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Receive	Communication (Copilot)	C027	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			3	
Transmit	Communication (Copilot)	C028	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	3	
Receive	Communication (Pilot)	P029	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			3	

FUNCTION 27 Perform External Communication **TOTAL TIME (Approximate) 12 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Transmitter Selector Switch	C130	Communication (UC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Desired Position C-1.2	Turn Switch P-5.8	Rotary - 6 Positions (R-6)	1	
Transmit	Message (Brief)	C089	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	2	
Receive	Message	C087	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			5	
Transmit	Acknowledgment	C002	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	2	

FUNCTION 28 Perform External Communication (Threat) **TOTAL TIME (Approximate) 30 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Transmitter Selector Switch	C130	Communication (UC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Desired Position C-1.2	Turn Switch P-5.8	Rotary - 6 Positions (R-6)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Transmit	Message (Brief)	C089	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	2	
Receive	Acknowledgment	C001	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			2	
Transmit	Message	C088	Communication (UC)	Receive Speech Feedback A-4.3	Encode Message C-5.3	Press Switch and Speak P-2.2	Springloaded Toggle - 3 Positions (SPT-3)	10	
Receive	Acknowledgment	C001	Communication (UC)	Receive Auditory Message A-4.9	Decode Message C-5.3			2	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DIST/BRG/TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	

FUNCTION 29 Perform Hover **TOTAL TIME (Approximate) 120 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Adjust	Power	P108	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	% TRQ Indicator (Inflight)	P138	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Altitude	P014	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Attitude	P020	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Drift	P050	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Maintain	Obstacle Clearance	P101	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Obstacle Clearance	C100	External Visual Field (VEX)	Visually Register Obstacles V-1	Make Conditioned Association (Aircraft Clear) C-1			1	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 30 **Perform Hover [NVG]** **TOTAL TIME (Approximate)** 220 Seconds*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Adjust	Power [NVG]	P109	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		2	
Check	% TRQ Indicator (Inflight)	P133	Engine Instruments/ Flight Control (EIN/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Control	Altitude [NVG]	P016	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Attitude [NVG]	P021	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Control	Drift [NVG]	P051	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Maintain	Obstacle Clearance [NVG]	P103	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		1	
Check	Obstacle Clearance [NVG]	C102	Flight Control/Night Vision Goggles (FC/VG)	Visually Register Obstacles G-1	Make Conditioned Association (Aircraft Clear) C-1			3	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 31 Perform Navigation **TOTAL TIME (Approximate)** **Continuous***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Monitor	Doppler Display	C042	Navigation Display (ND)	Read Symbolic Display V-5.9	Interpret Symbolic Readout and Make Judgment (Location Correct) C-6.8			4	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Follow	Course	C034	External Visual Field (VEX)	Visually Search External Field of View V-7	Interpret Sensory Feedback and Make Judgment (Adjustment Needed) C-6.8			4	

*The total time for this function varies with the segment in which the function occurs.

FUNCTION 32 Perform Navigation [NVG] TOTAL TIME (Approximate) Continuous*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Monitor	Doppler Display	C042	Navigation Display (ND)	Read Symbolic Display V-5.9	Interpret Symbolic Readout and Make Judgment (Location Correct) C-6.8			4	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Follow	Course [NVG]	C035	Night Vision Goggles (VG)	Visually Search External Field of View G-7	Interpret Sensory Feedback and Make Judgment (Adjustment Needed) C-6.8			4	

*The total time for this function varies with the segment in which the function occurs.

FUNCTION 33 Perform Taxi

TOTAL TIME (Approximate) 120.5 Seconds*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Forward Motion	P058	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Heading	P067	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Maintain	Obstacle Clearance	P101	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Obstacle Clearance	C100	External Visual Field (VEX)	Visually Register Obstacles V-1	Make Conditioned Association (Aircraft Clear) C-1			1	

*Since the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 34 Perform Taxi [NVG]

TOTAL TIME (Approximate) *±0.5 Seconds*

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Control	Forward Motion [NVG]	P059	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Control	Heading [NVG]	P070	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Maintain	Obstacle Clearance [NVG]	P103	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		.5	
Check	Obstacle Clearance [NVG]	C102	Night Vision Goggles (VG)	Visually Register Obstacles G-1	Make Conditioned Association (Aircraft Clear) C-1			3	

*Since the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 35 Program Doppler — TOTAL TIME (Approximate) 384 Seconds

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Mode Switch	C046	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Lamp Test) C-1.2	Turn Switch P-5.8	Safety Rotary - 6 Positions (SR-6)	1	
Check	Doppler Panel Lights	C047	Navigation Control (NC)	Visually Register Lights V-1	Verify Correct Status (All Lights Illuminated) C-1.2			2	
Set	Doppler Mode Switch	C045	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Evaluate Position Options and Decide Correct Position (Test) C-3.7	Turn Switch P-5.8	Safety Rotary - 6 Positions (SR-6)	1	
Check	Doppler Display	C041	Navigation Control (NC)	Read Symbolic Display V-5.9	Interpret Symbolic Readout and Verify No Malfunctions C-3.7			18	
Set	Doppler Mode Switch	C046	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (UTM) C-1.2	Turn Switch P-5.8	Safety Rotary - 6 Positions (SR-6)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (SPH/VAR) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Spnngloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler (Continued)

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Enter	Doppler Spheroid Data	C048	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Spheroid Data) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler Data Entry Key	C010	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Zone Data	C049	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Zone Data) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	8	

FUNCTION 35 Program Doppler (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C0136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	12	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C045	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (SPH/VAR) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (1) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (1) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler (Continued)

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	12	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (SPH/VAR) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (1) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (2) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 35 Program Doppler (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYED Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYED Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYED Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (1) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYED Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (2) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KY3D Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KY3D Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KY3D Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	12	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (SPH/VAR) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (2) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (3) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Dopoler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (2) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (3) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	12	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (SPH/VAR) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (3) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (4) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions	10	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (TGT STR Data) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (3) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (4) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	12	

FUNCTION 35 Program Doppler [Continued]

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DIST/BRG/TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (1) C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 36 Program Transponder **TOTAL TIME (Approximate)** 85 Seconds

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR		
Set	Master Switch	C084	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (STBY) C-1.2	Turn Switch P-5.8	Rotary - 4 Positions (R-4)	2
Set	Mode 1 Code	C091	Survivability (US)	Visually Locate Switch and Read Symbolic Display V-5.9	Encode Current Entry (Current Code) C-5.3	Press Switch P-2.2	Springloaded Press (SP)	5
Set	Mode 3A Code	C092	Survivability (US)	Visually Locate Switch and Read Symbolic Display V-5.9	Encode Current Entry (Current Code) C-5.3	Press Switch P-2.2	Springloaded Press (SP)	10
Check	Test Light	C124	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Illuminated) C-1.2	Press Light P-2.2	Springloaded Press (SP)	.5
Check	Test/MON Light	C125	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Illuminated) C-1.2	Press Light P-2.2	Springloaded Press (SP)	.5
Check	Reply Light	C119	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Illuminated) C-1.2	Press Light P-2.2	Springloaded Press (SP)	.5
Set	ANT Switch	C019	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (BOT) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1
Set	Master Switch	C084	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (NORM) C-1.2	Turn Switch P-5.8	Rotary - 4 Positions (R-4)	2
Set	M-1 Test Switch	C095	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2
Set	M-1 Switch	C094	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Evaluate Position Options and Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1

FUNCTION 36 Program Transponder (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	M-2 Test Switch	C097	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-2 Switch	C096	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-3 Test Switch	C099	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-3 Switch	C098	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-C Test Switch	C086	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-C Switch	C085	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	ANT Switch	C019	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (TOP) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-1 Test Switch	C095	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-1 Switch	C094	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	

FUNCTION 36 Program Transponder (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	M-2 Test Switch	C097	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-2 Switch	C096	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-3 Test Switch	C099	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-3 Switch	C098	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-C Test Switch	C086	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-C Switch	C085	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	ANT Switch	C019	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (DIV) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-1 Test Switch	C095	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-1 Switch	C094	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	

FUNCTION 36 Program Transponder (Continued)

TASKS		TASK #		WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT		SUBSYSTEM(S)	SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	M-2 Test Switch	C097	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-2 Switch	C096	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-3 Test Switch	C099	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-3 Switch	C098	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-C Test Switch	C086	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Go Illuminated) C-1.2	Move and Hold Switch P-2.2	Toggle - 3 Positions (T-3)	2	
Set	M-C Switch	C085	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	Mode 4 Switch	C093	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Desired Position C-1.2	Turn Switch P-2	Rotary - 4 Positions	2	
Set	M-1 Switch	C094	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-2 Switch	C096	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	

FUNCTION 36 Program Transponder (Continued)

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	M-3 Switch	C098	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	
Set	M-C Switch	C085	Survivability (US)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (ON) C-1.2	Move Switch P-2.2	Toggle - 3 Positions (T-3)	1	

UH-60 FUNCTION ANALYSIS

FUNCTION 37 Refuel Aircraft **TOTAL TIME (Approximate) 306.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	TAILWHEEL Switch	C122	Gear (FG)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (Locked) C-1.2	Move Switch P-2.2	Safety Toggle - 2 Positions (ST-2)	1	
Check	Tailwheel Advisory Light	C121	Advisory (UAD)	Visually Register Light V-1	Verify Correct Status (Locked) C-1.2			1	
Set	Park Brake	P106	Brakes (FB)	Feel Brake Position K-1	Decide and Verify Correct Position (Locked) C-1.2	Push Toe Brakes P-2.6		2	
Set	Park Brake Lever	C107	Brakes (FB)	Visually Locate Handle V-5	Decide and Verify Correct Position (Locked) C-1.2	Pull Handle P-5.8	Push-Pull Handle (PPH)	1	
Monitor	Fuel Quantity Indicator	P061	Fuel (EF)	Visually Monitor Instrument Indication V-7	Interpret Symbolic Readout (Quantity) and Make Judgment (Enough Fuel) C-6.8			300	
Check	Refueling Complete	P118	Fuel (EF)	Receive Auditory Message A-4.9	Verify Correct Status C-1.2			3	

FUNCTION 38 Respond to Threat **TOTAL TIME (Approximate) 34 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Detect	Threat	B126	Survivability (US)	Detect Visual Image V-1	Recognize Visual Signal (Threat Present) C-3.7			3	
Press	CHAFF Dispenser Switch	C026	Survivability (US)	Visually Locate Switch V-5	Verify Correct Position (CHAFF Activated) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	.5	
Set	Target Storage Switch	C123	Navigation Control (NC)	Visually Locate Switch V-5	Verify Correct Position C-1.2	Press Switch P-2.2	Springloaded Press (SP)	1	
Perform	Hard Turns	P064	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		3	
Change	Altitude Sharply	P017	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		3	
Change	Airspeed Quickly	P010	Flight Control (FC)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/V-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		3	
Check	Infrared Countermeasure Light	C071	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Extinguished) C-1.2			.5	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 39 Respond to Threat [NVG] **TOTAL TIME (Approximate)** **44 Seconds***

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Detect	Threat	B126	Survivability (US)	Detect Visual Image V-1	Recognize Visual Signal (Threat Present) C-3.7			3	
Press	CHAFF Dispenser Switch	C026	Survivability (US)	Visually Locate Switch V-5	Verify Correct Position (CHAFF Activated) C-1.2	Press Switch P-2.2	Springloaded Press (SP)	.5	
Set	Target Storage Switch	C123	Navigation Control (NC)	Visually Locate Switch V-5	Verify Correct Position C-1.2	Press Switch P-2.2	Springloaded Press (SP)	1	
Perform	Hard Turn [NVG]	P065	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		4	
Change	Altitude Sharply [NVG]	P018	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		4	
Change	Airspeed Quickly [NVG]	P011	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Detect Aircraft Movement K-7/G-1	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		4	
Check	Infrared Countermeasure Light	C071	Survivability (US)	Visually Register Light V-1	Verify Correct Status (Extinguished) C-1.2			.5	

*Since some of the tasks are performed randomly, the total time for the function is greater than the sum of the length of the individual tasks.

FUNCTION 40 Unload Aircraft (Internal) **TOTAL TIME (Approximate) 21.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Monitor	Unloading	C134	Cargo (UCA)	Visually Scan Cargo Compartment V-7	Verify Correct Procedure C-1.2	Move Head P-2.6		10	
Verify	Unloading Complete	C135	Cargo (UCA)	Visually Inspect Cargo Compartment V-4	Verify Correct Status C-1.2	Move Head P-2.6		5	
Check	Doors	C039	Cargo (UCA)	Visually Inspect Doors V-4	Verify Correct Status C-1.2	Move Head P-2.6		5	

FUNCTION 41 **Unload Cargo (External)** **TOTAL TIME (Approximate)** **6.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Verify	Load on Ground	P075	External Visual Field (VEX)	Visually Discriminate Hand Motion V-3.7	Evaluate Sensory Feedback C-3.7			2	
Press	Cargo Release Button	P023	Cargo (UCA)	Feel Switch Movement K-1	Verify Correct Position (Button Pressed) C-1.2	Press Button P-2.2	Springloaded Press (SP)	1	
Verify	Load Released	P077	External Visual Field (VEX)	Visually Discriminate Hand Motion V-3.7	Evaluate Sensory Feedback and Verify Correct Status (Released) C-4.6			2	

FUNCTION 42 Unload Cargo (External) [NVG] **TOTAL TIME (Approximate) 8.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Verify	Load on Ground [NVG]	P076	Night Vision Goggles (VG,	Visually Discriminate Hand Motion G-5	Evaluate Sensory Feedback C-3.7			3	
Press	Cargo Release Button	P023	Cargo (UCA)	Feel Switch Movement K-1	Verify Correct Status (Button Pressed) C-1.2	Press Button P-2.2	Springloaded Press (SP)	1	
Verify	Load Released [NVG]	P078	Night Vision Goggles (VG)	Visually Discriminate Hand Motion G-5	Evaluate Sensory Feedback and Verify Correct Status (Released) C-4.6			3	

FUNCTION 43 Update Doppler (Landmark) **TOTAL TIME (Approximate) 297 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (P) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Display Frozen) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Function (SP-AN)	12	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Maneuver	Aircraft Across Landmark	P003	Flight Control/ External Visual Field (FC/VEX)	Feel Control Movements/ Visually Orient Aircraft K-7/V-3.7	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		240	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Verify	Aircraft Location	C005	External Visual Field (VEX)	Visually Search External Field of View V-7	Interpret Sensory Feedback and Make Judgment (Correct Landmark) C-6.8			40	

FUNCTION 43 Update Doppler (Landmark) [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DIST/BRG/TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	

FUNCTION 44 Update Doppler (Lankmark) [NVG] **TOTAL TIME (Approximate)** **277.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (P) C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Set	Doopler Display Selector Switch	C040	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Display Frozen) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Function (SP-AN)	12	
Check	Heading Indicator (Inflight)	P068	Flight Instruments/ Flight Control (FI/FC)	Feel Control Movements/ Visually Check Instrument Indications K-7/V-4	Interpret Readout and Verify Correct Status (Readout Within Limits) C-3.7	Control Pressure P-2.6		1	
Maneuver	Aircraft Across Landmark [NVG]	P004	Flight Control/Night Vision Goggles (FC/VG)	Feel Control Movements/ Visually Orient Aircraft K-7/G-5	Make Conditioned Association (Adjustment Needed) C-1	Control Pressure P-2.6		240	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Verify	Aircraft Location [NVG]	C006	Navigation Control/ Night Vision Goggles (NC/VG)	Visually Search External Field of View G-7	Interpret Sensory Feedback and Make Judgment (Correct Landmark) C-6.8			40	

FUNCTION 44 Update Doppler (Lankmark) [NVG] [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Ch[illegible] Positions and [illegible] of Switch V-4	Decide Correct Position (DIST/BRG/TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	

FUNCTION 45 Update Doppler (Mission Change) **TOTAL TIME (Approximate) 85 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Mode Switch	C046	Navigation Control (NC)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (UTM) C-1.2	Turn Switch (-5.8	Safety Rotary - 6 Positions (SR-6)	1	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch (-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C0. 4	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Zone Data	C049	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Zone Data) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Function (SP-AN)	8	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Left and Right Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	UTM Coordinates	C136	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Coordinates) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Function (SP-AN)	12	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7)	Press Key P-2.2	Springloaded Press (SP)	1	

FUNCTION 45 Update Doppler (Mission Change) [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	DEST DISP Thumbwheel	C037	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Thumbwheel P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (TGT STR Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Spheroid Data	C048	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Spheroid Data) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Center Display Blank) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Enter	Doppler Magnetic Variation	C045	Navigation Control (NC)	Visually Locate Keys and Read Symbolic Display V-5.9	Encode and Verify Correct Entry (Magnetic Variation) C-5.3	Type Entry P-7	Springloaded Press - Alphanumeric Functions (SP-AN)	10	
Check	Doppler Display	C041	Navigation Control (NC)	Read Symbolic Display V-5.9	Interpret Symbolic Readout and Verify No Malfunctions C-3.7			18	

FUNCTION 45 Update Doppler (Mission Change) [Continued]

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Position and Placement of Switch V-4	Decide Correct Position (DEST/TGT) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position (H) C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 46 Update Doppler (PZ) **TOTAL TIME (Approximate) 8.5 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Display Frozen) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 47 Update Doppler (Stored Destination) **TOTAL TIME (Approximate) 62 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DIST/BRG TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Verify	Aircraft Location	C005	External Visual Field (VEX)	Visually Search External Field of View and Read Map Symbols V-7	Identify Objects and Make Judgment (Location Correct) C-6.8			40	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Display Frozen) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	

FUNCTION 48 Update Doppler (Stored Destination) (NVG) **TOTAL TIME (Approximate) 62 Seconds**

TASKS		TASK #	SUBSYSTEM(S)	WORKLOAD COMPONENTS			SWITCH DESCRIPTION	DURATION (SECONDS) DISCRETE/ CONTINUOUS	
VERB	OBJECT			SENSORY	COGNITIVE	PSYCHOMOTOR			
Set	Doppler Display Selector Switch	C043	Navigation Control (NC)	Visually Check Switch Positions and Placement of Switch V-4	Decide Correct Position (DIST/BRG TIME) C-1.2	Turn Switch P-5.8	Rotary - 7 Positions (R-7)	2	
Read	Maps	C082	Navigation Control (NC)	Read Map Symbols V-5.9	Interpret Map Symbols C-6.8	Handle Maps P-4.6		10	
Verify	Aircraft Location [NVG]	C006	Night Vision Goggles (VG)	Visually Search External Field of View G-5	Identify Objects and Make Judgment (Location Correct) C-6.8			40	
Press	Doppler KYBD Key	C044	Navigation Control (NC)	Visually Locate Key and Inspect Display Status V-5	Verify Correct Status (Display Frozen) C-1.2	Press Key P-2.2	Springloaded Press (SP)	1	
Press	Doppler Data Entry Key	C040	Navigation Control (NC)	Visually Locate Key and Read Symbolic Display V-5.9	Verify Entry Correct (UTM Coordinates) C-3.7	Press Key P-2.2	Springloaded Press (SP)	1	
Set	FLY-TO-DEST Switch	C057	Navigation Control (NC)	Read Symbolic Display V-5.9	Decide and Verify Correct Position C-1.2	Turn Switch P-5.8	Vertical Thumbwheel - 9 Positions (VT-9)	5	